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PCT/FR2003/000955



Translation

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BR 18176/IN	FOR FURTHER ACTION See . Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FR2003/000955	International filing date (day/month/year) 26 mars 2003 (26.03.2003)	Priority date (day/month/year) 27 mars 2002 (27.03.2002)
International Patent Classification (IPC) or national classification and IPC G01B 7/16, G01L 1/22		
Applicant MAUBANT, Philippe		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 18 octobre 2003 (18.10.2003)	Date of completion of this report 19 March 2004 (19.03.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FR2003/000955

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☒ the description: _____, as originally filed
 pages 1-23
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the claims: _____, as originally filed
 pages 1-33
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the drawings: _____, as originally filed
 pages 1/9-9/9
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description: _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-33	YES
	Claims		NO
Inventive step (IS)	Claims	1-33	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-33	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1: US-A-4 314 481 (WOLFER PETER ET AL) 9 February 1982 (1982-02-09)

D2: US-A-5 353 645 (FELDMAN JOACHIM ET AL) 11 Oct 1994 (1994-10-11)

1. Novelty

1.1. The present application satisfies the requirements of PCT Article 33(1), since the subject matter of claim 1 meets the criterion of novelty (PCT Article 33(2)).

1.2. Document D1 (column 4, lines 22-68; figure 1), which is considered the prior art closest to the subject matter of claim 1, describes (references between parentheses apply to said document):

A strain gauge using a deformable member (7) mounted on a part to be tested (1) via two mounting studs (5, 8), using two screws (3, 4). The deformable member (7) is linked to piezoelectric sensor (11).

- 1.3 Document D1 does not describe a strain gauge including means for prestressing the deformable member.

2. Inventive step

- 2.1 Said means also provide the possibility of adjusting the spacing between the mounting studs.
- 2.2 The problem that the present application aims to solve can therefore be considered to be that of tapping the sensor prior to mounting same on a part to be tested.
- 2.3 The solution proposed in claim 1 of the present application is considered to be inventive (PCT Article 33(3)) for the following reasons:
- 2.4 The device according to document D1 directly adjusts the prestressing of the piezoelectric sensor (11) but not that of the deformable member (7).
- 2.5 Document D2 (see column 3, lines 3-15) describes a device providing stress pre-adjustment using a screw ("screw-in-plug" 1). However, said screw is not used for adjusting the spacing between two mounting studs. The device according to document D2 is located in a bore of a structure to be tested and is not mounted on the surface of a part to be tested.

3. Industrial applicability

The subject matter of claims 1-33 meets the requirements of PCT Article 33(4).